

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|---------------------|
| L1 | 0 | ("380"/("44" /"247" /"277")). ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/23 12:12 |
| L2 | 473 | (380/247).ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/23 12:12 |
| L3 | 2054 | (380/277).ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/23 12:12 |
| L4 | 1469 | (380/44).ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:13 |
| L5 | 1469 | 380/44.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:13 |
| L6 | 1290 | 713/155.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:13 |
| L7 | 2972 | 713/168.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:13 |

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| L8 | 678 | 713/169.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:13 |
| L9 | 936 | 713/185.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:14 |
| L10 | 538 | 713/187.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:14 |
| L11 | 844 | 713/194.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/23 12:14 |
| L12 | 727 | 726/9.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/23 12:16 |
| L13 | 739 | 726/30.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/23 12:17 |
| L16 | 0 | (secure passcode authentication system Access Control Server (ACS) receive request passcode authentication Primary Account Number (PAN) merchant server request passcode PAN cardholder device ACS associated issuer PAN front end Hardware Security Module (HSM) coupled ACS receive passcode encrypted format generate encrypted passcode using local encryption key back end HSM receive encrypted passcode front end HSM recover clear passcode generate back encrypted passcode communicate back end | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2009/11/23 12:41 |

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| | | encrypted passcode authentication network system authenticates passcode ACS configured receive authentication message the authentication network).clm. | | | | |
| S1 | 1 | 10/816455 | US-PGPUB; USPAT | OR | ON | 2007/07/19 07:56 |
| S2 | 1516 | 380/44 | US-PGPUB; USPAT | OR | ON | 2007/07/19 07:56 |
| S3 | 0 | "08389511" | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:22 |
| S4 | 1 | "08/389511" | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:23 |
| S5 | 24 | "08/040779" | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:26 |
| S6 | 1 | "08/390191" | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:27 |
| S7 | 4 | 10/370149 | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:28 |
| S8 | 1 | "60373702" | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:29 |
| S9 | 1 | 08/551124 | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:30 |
| S10 | 1 | "60459508" | US-PGPUB; USPAT | OR | ON | 2007/07/19 08:31 |
| S11 | 1 | 09/881916 | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:19 |
| S12 | 1 | "20020031225" | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:22 |
| S13 | 296156 | ACS | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:22 |
| S14 | 121101 | PAN | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:22 |
| S15 | 1291 | HSM | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:23 |
| S16 | 869761 | PIN | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:23 |
| S17 | 12655 | SSL | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:23 |
| S18 | 330 | AWK | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:23 |
| S19 | 28 | PINBLOCK | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:27 |
| S20 | 3 | S13 and S19 | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:25 |
| S21 | 27 | PIN-BLOCK | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:41 |
| S22 | 0 | S13 and S21 | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:26 |

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| S23 | 10076 | S13 and S14 | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:41 |
| S24 | 12 | S23 and S15 | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:48 |
| S25 | 1898 | secure adj authenticat\$5 | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:54 |
| S26 | 589 | S25 and @py<"2004" | US-PGPUB; USPAT | OR | ON | 2007/07/19 10:55 |
| S27 | 4 | S26 and S15 | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:06 |
| S28 | 0 | S26 and ll5 | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:07 |
| S29 | 199 | S26 and S16 | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:07 |
| S30 | 44 | S29 and S13 | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:18 |
| S31 | 0 | S30 and S15 | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:11 |
| S32 | 130 | S13 and S15 | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:11 |
| S33 | 46 | S32 and @py<"2004" | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:13 |
| S34 | 1195 | ecommerce | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:18 |
| S35 | 6 | S34 and S15 | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:34 |
| S36 | 51 | local adj encryption adj key | US-PGPUB; USPAT | OR | ON | 2007/07/19 11:43 |
| S37 | 100 | "5347580" | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:12 |
| S38 | 206 | "5655077" | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:14 |
| S39 | 33 | "5841866" | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:14 |
| S40 | 121101 | PAN | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:24 |
| S41 | 1898 | secure adj authenticat\$5 | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:24 |
| S42 | 58 | S40 AND S41 | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:37 |
| S43 | 270 | primary adj account adj number | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:38 |
| S44 | 296156 | ACS | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:38 |
| S45 | 25 | S43 and S44 | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:50 |
| S46 | 289 | hardware adj security adj module | US-PGPUB; USPAT | OR | ON | 2007/07/19 14:42 |

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| S47 | 11 | S46 and S44 | US-PGPUB; USPAT | OR | ON | 2007/07/19 13:51 |
| S48 | 1 | 09/773609 | US-PGPUB; USPAT | OR | ON | 2007/07/19 14:35 |
| S49 | 5 | HSM1 ADJ HSM2 | US-PGPUB; USPAT | OR | ON | 2007/07/19 14:35 |
| S51 | 2 | S46 ADJ ONE | US-PGPUB; USPAT | OR | ON | 2007/07/19 14:45 |
| S53 | 3 | S41 and S45 | US-PGPUB; USPAT | OR | ON | 2007/07/19 14:45 |
| S54 | 3 | "7058968" | US-PGPUB; USPAT | OR | ON | 2008/03/17 15:05 |
| S55 | 1 | "7181580" | US-PGPUB; USPAT | OR | ON | 2008/03/17 15:29 |
| S56 | 1 | 10/872136 | US-PGPUB; USPAT | OR | ON | 2008/03/17 16:14 |
| S57 | 1 | "20040123972" | US-PGPUB; USPAT | OR | ON | 2009/05/04 13:34 |
| S58 | 2 | "20020123972" | US-PGPUB; USPAT | OR | ON | 2009/05/04 13:35 |
| S59 | 1 | "20090235085" | US-PGPUB; USPAT | OR | ON | 2009/11/21 15:37 |
| S60 | 1 | "7500109" | US-PGPUB; USPAT | OR | ON | 2009/11/21 15:41 |
| S61 | 9 | 09/658253 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 15:42 |
| S62 | 3 | "7330836" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 15:52 |
| S63 | 4 | "7308431" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:01 |
| S64 | 2 | "20080313707" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:05 |

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| S65 | 0 | (access adj control adj server) with (PIN password token (private adj key) (secret adj key)) with network with generat\$3 with (encrypted adj (PIN password token (private adj key) (secret adj key))) with (issuer bank provider) with authentication | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:14 |
| S66 | 1 | (access adj control adj server) with (PIN password token (private adj key) (secret adj key)) with network with generat\$3 with (encrypted adj (PIN password token (private adj key) (secret adj key))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:15 |
| S67 | 24 | (access adj control adj server) with (PIN password token (private adj key) (secret adj key)) with network | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:15 |
| S68 | 174394 | encrypt\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:16 |
| S69 | 15 | S67 and S68 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:16 |
| S70 | 1 | S69 and @py< "2003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:16 |
| S71 | 4 | "2002031225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:58 |
| S72 | 0 | "2002/031225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:58 |

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| S73 | 1 | "200231225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:58 |
| S74 | 503781 | (hines adj larry lee).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 16:59 |
| S75 | 1 | (hines adj larry adj lee).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 17:00 |
| S76 | 48 | "6424718" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/11/21 17:44 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--------------------------|------------------|---------|------------------|
| L15 | 0 | (secure passcode authentication system Access Control Server (ACS) receive request passcode authentication Primary Account Number (PAN) merchant server request passcode PAN cardholder device ACS associated issuer PAN front end Hardware Security Module (HSM) coupled ACS receive passcode encrypted format generate encrypted passcode using local encryption key back end HSM receive encrypted passcode front end HSM recover clear passcode generate back encrypted passcode communicate back end encrypted passcode authentication network system authenticates passcode ACS configured receive authentication message the authentication network). | US-PGPUB; USPAT; UPAD | AND | OFF | 2009/11/23 12:41 |

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11/ 23/ 2009 12:41:51 PM

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